

## Claims

1    1.    A medical device for use within a body cavity, the medical device comprising:  
2                 an elongated body portion defining a lumen, said body portion comprising a  
3                 proximal end, a distal end, a proximal portion, and a distal portion; and,  
4                 a retention module disposed proximal to said proximal end of said elongated body  
5                 portion, said retention module comprising a fixation element attached to the elongated  
6                 body portion by a tether connector.

1    2.    The medical device of claim 1 wherein said fixation element is substantially  
2                 buoyant.

1    3.    The medical device of claim 1 wherein said fixation element comprises a size and  
2                 configuration that prohibits the passage of said fixation element from the lumen of the  
3                 urinary bladder into the lumen of the ureter.

1    4.    The medical device of claim 1 wherein said fixation element is a substantially  
2                 planar spiral.

1    5.    The medical device of claim 1 wherein said fixation element is a substantially  
2                 helical spiral.

1    6.    The medical device of claim 1 wherein said proximal portion of said elongated  
2                 body portion is substantially more compressible than the other portions of said elongated  
3                 body portion.

1    7.    The medical device of claim 1 further comprising a plurality of the retention  
2                 modules.

1    8.    The medical device of claim 1 wherein said tether connector is substantially  
2                 elastic.

1    9.    The medical device of claim 1 wherein said tether connector is substantially rigid.

1    10.    The medical device of claim 1 wherein said distal portion of said elongated body  
2    portion comprises a planar spiral loop for retention in the renal pelvis.

1    11.    The medical device of claim 1 wherein said elongated body portion is  
2    substantially rigid to prevent its deformation during insertion through the ureter.

1    12.    The medical device of claim 1 wherein said elongated body portion defines a  
2    plurality of openings along its length.

1    13.    The medical device of claim 1 wherein said fixation element is substantially  
2    spherical.

1    14.    The medical device of claim 13 wherein the diameter of said fixation element is  
2    greater than the diameter of the lumen of the ureter.

1    15.    A method of treating at least partial ureteral obstruction of a patient, comprising:  
2         a.      providing a medical device comprising an elongated body portion  
3      defining a lumen, the body portion comprising a proximal end, a distal end, a proximal  
4      portion, and a distal portion, the medical device further comprising a retention module  
5      disposed proximal to said proximal end of the elongated body portion, said retention  
6      module comprising a fixation element attached to the elongated body portion by a tether  
7      connector; and

8         b.      inserting the medical device into the patient such that said fixation element  
9      is positioned in the bladder of the patient.

1    16.    The method of claim 15 wherein said fixation element is substantially buoyant.

1    17.    The method of claim 15 wherein the fixation element comprises a size and  
2      configuration that prohibits the passage of said fixation element from the lumen of the  
3      urinary bladder into the lumen of the ureter.

1    18.    The method of claim 15 wherein said device further comprises a plurality of the  
2      retention modules.

1       19.     The method of claim 15 wherein said tether connector is substantially elastic.

1       20.     The method of claim 15 wherein said tether connector is substantially rigid.

1       21.     The method of claim 15 wherein said distal portion comprises a planar spiral loop  
2       for retention in the renal pelvis.

1       22.     The method of claim 15 wherein said elongated body portion is substantially rigid  
2       to prevent its deformation during insertion through the ureter.

1       23.     The method of claim 15 wherein said elongated body portion defines a plurality of  
2       openings along its length.

1       24.     The method of claim 15 wherein said fixation element is substantially spherical.

1       25.     The method of claim 24 wherein the diameter of said fixation element is greater  
2       than the diameter of the lumen of the ureter.

1       26.     A medical device for use within a body cavity, the medical device comprising:  
2               an elongated body portion defining a lumen, said elongated body portion  
3               comprising a proximal end, a distal end, a proximal portion and a distal portion and said  
4               elongated body portion including a plurality of pores, said distal portion comprising a  
5               planar spiral; and,  
6               at least one retention module attached to said proximal end of said elongated body  
7               portion, said retention module comprising at least one buoyant, spherical fixation element  
8               attached to the proximal end of said elongated body portion by a substantially elastic  
9               tether connector.